DEPARTMENT OF THE AIR FORCE
Headquarters, United States Air Force
Washington DC 2O33O-1490

CHANGE 2
CFETP 15WX
May 2001

This change is effective with E3OAR15W3 000 class starting 20011015:

1. Required changes:

Page	Paragraph	Column	Action
24.1 – 24.6			Add

2. After necessary action, file this sheet in the back of CFETP.

DAVID L. JOHNSON, Brig General, USAF

Directorate of Weather
DCS/Air and Space Operations

DEPARTMENT OF THE AIR FORCE
81st Training Group (AETC)
Keesler Air Force Base Mississippi 39534-2038

CTS E3OAR15W3 000
(PDS Code FOW)
May 2001

COMBAT WEATHER TEAM OFFICER

1. Implementation of training in support of this CTS is with class beginning 20011015 and graduating 20020117.

2. Purpose. This course training standard:

a. Establishes the training requirements using tasks, knowledge, and proficiency levels for course E3OAR15W3 000, Combat Weather Team Officer.

b. Provides the basis for the development of more detailed training materials, training objectives, and training evaluation instruments for the course.

3. Course Description. This group paced course provides mandatory training for officers in AFSC 15W3 who have been in the Air Force for three to four years prior to being assigned to a combat weather team. The weather impact on operations is covered including space, land warfare, air, and special operations. Special topics such as weather observations and equipment, tactical weather communications and decision aids, mission execution forecast process, weather systems management, and space are taught. This course is piggybacked with the weather enlisted course E3AAR1W051 002, Combat Weather Team Operations.

4. Qualitative Requirements. Attachment 1 contains the task, knowledge, and proficiency levels referenced in paragraph 2. Prerequisites: Must have been awarded a skill level of 15W3. Attachment 2 is the correlation of the 1W0X1 STS, May 2001 and this CTS.

5. Recommendations. Comments and recommendations are invited concerning quality of AETC training. Reference this CTS and address correspondence regarding changes to 81 TRG/TGET, 825 Hercules, Suite 101, Keesler AFB MS 39534-2037. A Customer Service Information Line (CSIL) has been installed for the supervisor's convenience to identify unsatisfactory performance of individual graduates or to identify graduates who may have received over or under training on task/knowledge items listed in this training standard. For quick response to problems, call our CSIL, DSN 597-4566, anytime day or night (FAX DSN 597-3790 or e-mail 81trg-tget@keesler.af.mil). Identify the specific area of concern (paragraph, training standard element, etc.).

JOHN R. BRYANT, Colonel, USAF
Commander

Attachments:
1. Qualitative Requirements
2. CTS/STS Correlation

Prepared by: 335 TRS/TRRA
Approved by and Date: HQ USAF/XOWR, 28 March 2001
Distribution: F (Continued on page 2)

QUALITATIVE REQUIREMENTS

PROFICIENCY CODE KEY		
	SCALE VALUE	DEFINITION: The Individual
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task.
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task.
*** TASK KNOWLEDGE LEVELS**	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (COMPLETE THEORY)
****SUBJECT KNOWLEDGE LEVELS**	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)

EXPLANATIONS

* *A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)*

** *A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.*

\- *This mark is used alone instead of a scale value to show that no proficiency training is provided in the course.*

Distribution: (Continued from page 1)

HQ AFWA/DNT 1
HQ AFSAT/SDS 1
HQ USAF/XOWR 1
HQ ANG/DOOSW 1
81 TRG/TGET 1
335 TRS/UOAA 6
335 TRS/TRRA 8

QUALITATIVE REQUIREMENTS
Tasks, Knowledge, and Proficiency Level

Note: All items WILL BE TAUGHT in the wartime course.

1. WEATHER IMPACTS ON OPERATIONS

1.1. Space	A
1.2. Land warfare	A
1.3. Air	A
1.4. Special operations	A

2. WEATHER EQUIPMENT

2.1. Operate Fixed Meteorological Equipment	
2.1.1. Cloud height	2b
2.1.2. Visibility	2b
2.1.3. Wind	2b
2.1.4. Pressure	2b
2.1.5. Temperature and dew point	2b
2.1.6. Precipitation	2b
2.1.7. Lightning Detection System (LDS)	2b
2.2. Tactical Equipment	
2.2.1. GMQ-33, TMQ-34, TMQ-36, TMQ-53 (TR: Operator's Manuals)	
2.2.1.1. Set up and tear down	b
2.2.1.2. Operate	2b
2.2.2. Troubleshoot	b
2.2.3. Tactical automated sensors	A

3. TACTICAL WEATHER COMMUNICATIONS

3.1. Tactical communications architecture	B
3.2. High Frequency (HF)	
3.2.1. Radio-wave propagation	B
3.2.2. Antenna types	B
3.2.3. Antenna configuration	B
3.2.4. Radio Broadcast Frequencies (HFRB)	B
3.3. Satellite communications (VSAT)	
3.3.1. Set up	b
3.3.2. Operate	2b

3.3.3. Troubleshoot	b

4. TACTICAL DECISION AIDS

4.1.1. Produce	
4.1.1.1. Electro Optical (EOTDA)	2b
4.1.1.2. Night Vision Goggles	2b
4.1.1.3. Integrated Weather Effects Decision Aids (IWEDA) (WEW)	a
4.1.2. Atmospheric effects on electro-optical systems	C
4.1.3. Target Acquisition Systems	B
4.1.4. Precision Guided Munitions Operation	B

5. MISSION EXECUTION FORECAST PROCESS (MEFP)

5.1. Process	C
5.2. Apply climatology to mission forecast preparation	2b
5.3. Prepare and present weather briefings	2b
5.4. Tailored mission products	
5.4.1. Ground operations	B
5.4.2. Air operations	B
5.4.3. Amphibious	B

6. WEATHER OBSERVATIONS

6.1. Observe and evaluate	
6.1.1. Sky condition and clouds	2b
6.1.2. Visibility and runway visual range (RVR)	2b
6.1.3. Present weather and obstructions to vision	2b
6.1.4. Wind characteristics	2b
6.1.5. Barometric pressure	2b
6.1.6. Temperature and dew point	2b
6.1.7. Precipitation rate and amount	2b
6.2. Encode METAR observations	2b
6.3. Perform barometer comparisons	2b
6.4. Record summary of the day data	
6.4.1. Twenty-four hour operations	2b
6.4.2. Limited duty operations	2b
6.5. Chemical downwind messages	
6.5.1. Encode	2b

6.5.2. Decode	2b
6.6. Determine SPECI and LOCAL observation criteria	1a

7. TACTICAL WEATHER SITE

7.1. Select site	B
7.2. Create tactical visibility chart	2b
7.3. Observe and encode tactical weather observations	2b
7.4. Provide mission tailored tactical forecast products	2b

8. WEATHER SYSTEMS MANAGEMENT

8.1. System configuration	B
8.2. Establish network/communication connections	b
8.3. Perform system manager functions	2b

9. SPACE

9.1. Effects on operations	C
9.2. Effects on communications	C
9.3. Apply products	2b
9.4. Decode bulletins	2b

CWT STS (MAY 01)/CTS (MAY 01) CORRELATION

STS (Sorted)

STS	CTS	L
4.8	6.6	1a
6.2.1	2.1.1	2b
6.2.2	2.1.2	2b
6.2.3	2.1.3	2b
6.2.4	2.1.4	2b
6.2.5	2.1.5	2b
6.2.6	2.1.6	2b
6.2.7	2.1.7	2b
6.3.1.1	2.2.1.1	b
6.3.1.2	2.2.1.2	2b
6.3.4	2.2.3	A
6.4	6.3	2b
6.7	2.2.2	b
7.2	3.1	B
7.3.1.1	3.2.1	B
7.3.1.2	3.2.2	B
7.3.1.3	3.2.3	B
7.3.1.4	3.2.4	B
7.3.2.1	3.3.1	b
7.3.2.2	3.3.2	2b
7.3.2.3	3.3.3	b
7.5.4	8.2	b
7.14	9.2	C
7.15.1	8.1	B
7.15.2	8.3	2b
9.2.1	6.1.1	2b
9.2.2	6.1.2	2b
9.2.3	6.1.3	2b
9.2.4	6.1.4	2b
9.2.5	6.1.5	2b
9.2.6	6.1.6	2b
9.2.7	6.1.7	2b
9.3.1	6.4.1	2b
9.3.2	6.4.2	2b
10.1.1	6.2	2b
10.1.8	6.5.1	2b
10.2.7	6.5.2	2b
10.2.13	9.4	2b
11.2.2	5.2	2b
12.1.3	4.1.2	C
14.2.1	5.4.1	B
14.2.2	5.4.2	B
14.2.3	5.4.3	B
14.4.13	5.2	2b
14.5	5.1	C
14.12.1	4.1.1.1	2b
14.12.2	4.1.1.2	2b
14.12.3	4.1.1.3	a
14.16	4.1.3	B
14.17	4.1.4	B
15.4	5.3	2b
18.4.1	1	A
19.2.1	7.1	B
19.2.2	7.2	2b
19.2.3	7.3	2b
19.5	7.4	2b
20.2	9.1	C
20.3.3	9.3	2b

CTS (Sorted)

STS	CTS	L
18.4.1	1	A
6.2.1	2.1.1	2b
6.2.2	2.1.2	2b
6.2.3	2.1.3	2b
6.2.4	2.1.4	2b
6.2.5	2.1.5	2b
6.2.6	2.1.6	2b
6.2.7	2.1.7	2b
6.3.1.1	2.2.1.1	b
6.3.1.2	2.2.1.2	2b
6.7	2.2.2	b
6.3.4	2.2.3	A
7.2	3.1	B
7.3.1.1	3.2.1	B
7.3.1.2	3.2.2	B
7.3.1.3	3.2.3	B
7.3.1.4	3.2.4	B
7.3.2.1	3.3.1	b
7.3.2.2	3.3.2	2b
7.3.2.3	3.3.3	b
14.12.1	4.1.1.1	2b
14.12.2	4.1.1.2	2b
14.12.3	4.1.1.3	A
12.1.3	4.1.2	C
14.16	4.1.3	B
14.17	4.1.4	B
14.5	5.1	C
11.2.2	5.2	2b
14.4.13	5.2	2b
15.4	5.3	2b
14.2.1	5.4.1	B
14.2.2	5.4.2	B
14.2.3	5.4.3	B
9.2.1	6.1.1	2b
9.2.2	6.1.2	2b
9.2.3	6.1.3	2b
9.2.4	6.1.4	2b
9.2.5	6.1.5	2b
9.2.6	6.1.6	2b
9.2.7	6.1.7	2b
10.1.1	6.2	2b
6.4	6.3	2b
9.3.1	6.4.1	2b
9.3.2	6.4.2	2b
10.1.8	6.5.1	2b
10.2.7	6.5.2	2b
4.8	6.6	1a
19.2.1	7.1	B
19.2.2	7.2	2b
19.2.3	7.3	2b
19.5	7.4	2b
7.15.1	8.1	B
7.5.4	8.2	b
7.15.2	8.3	2b
20.2	9.1	C
7.14	9.2	C
20.3.3	9.3	2b
10.2.13	9.4	2b